This example pertains to 329A, B or C

USDA
NRCS

Residue Management – 329

KS-ECS-329
7/03

(CHECK ONE)

☐ **No-till/Strip-till (329A)** ☒ **Mulch-till (329B)** ☐ **Ridge-till (329C)**

Name: Ima Farmer Date: 7/18/02 Ident. No.: F 29, Tract 20

Legal Desc.: NE 1/4, Sec 9, T 12, R 38 Field No.: 1,2,and 4 County: Ellsworth

Identified resource concerns: Sheet and rill erosion

Producer objectives: Reduce input losses and increase crop production

Scope: This specification provides guidelines to assure the residue management systems meet the resource needs and the producer's objectives. The specification is based on the amount, timing, and orientation of crop residue left on the soil surface.

Purpose of establishment: (Select all that apply)

☒ Reduce water erosion	☐ Mitigate potential pollution	☐ Reduce wind erosion
☒ Conserve soil moisture	☐ Improve wildlife habitat (food and cover)	☐ Other
☒ Improve soil quality	☐ Manage snow cover for plant available water	

Comments: (Use arrow key to advance to next line.)

Table 1: Specifications and Application Record

Tract/ field	Crop to be planted	Previous crop residue	Orientation (standing or flat)	Height (inches)	Critical season(s)	Pounds of residue		Percent residue	
						Planned	Applied	Planned	Applied
1,2,4	WW	SB	Flat		Feb - May			65%	65%
	DSB	WW	Standing	6"	Feb - May			70%	70%
	GS	WWSB	Standing	3"	Feb - May			15%	15%
	SB	GS	Flat		Feb - May			20%	20%

Notes: If residue is managed for wildlife benefits, describe planned wildlife provisions. Also use this space to describe row direction, grade restrictions, or other site-specific requirements. (Use arrow key to advance to next line.)

WW = winter wheat, DSB = double crop soybeans; GS = sorghum; SB = soybeans

Comment: Pertains to percentage immediately after planting the crop listed and is the minimum level required to meet soil loss objectives.

Comment: Include legend for table abbreviations.

Legal Desc.: NE 1/4, Sec 9, T 12, R 38

Table 2: Design Worksheet for Estimating Crop Residue Produced (for planned rotation)

To activate this table, open and save Form KS-ECS-329wksht.xls to the hard drive of your personal computer. Double click the table to enter values. Position the table and click outside the table to exit and save entries.

Column 1 Crop	Column 2 Harvest units	Column 3 Yield	Column 4 Lbs residue/unit yield	Column 5 Estimated lbs residue/acre	Column 6 Estimated percent ground cover	Column 7 Instructions to estimate values for columns 5 and 6
WW	BU	50	102	5100	100%	Multiply column 3 by column 4 to estimate total pounds of residue available after harvest. Table 3 of construction specifications (codes 329A, 329B, and 329C) can be used to convert pounds of residue/acre (column 5) to percent ground cover (column 6)
DSB	BU	30	75	2250	100%	
GS	BU	85	56	4760	85%	
SB	BU	40	75	3000	70%	
				0		
				0		
				0		
				0		
				0		
				0		

Notes: WW=winter wheat; DSB = double crop soybeans; GS = grain sorghum; SB = soybeans; BU = bushels

Information in column 7 is used in Table 3 as an estimate of beginning ground cover for each crop in the rotation.

Table 3: Design Worksheet for Residue Budget

Crop	Previous crop	Beginning residue	Operation	Date	Percent retained	Percent residue left
WW	SB	70%	Double disk opener, no-till drill	10/15	90%	65%
DSB	WW	100%	Double disk opener, no-till drill	7/1	90%	90%
GS	DSB	90%	Chisel	3/15	50%	45%
GS	DSB	45%	Disk, light	4/1	50%	25%
GS	DSB	25%	Field cultivate	4/25	70%	20%
GS	DSB	20%	Planter, double disk opener	5/1	85%	15%
SB	GS	85%	Disk	4/1	50%	45%
SB	GS	45%	Field cultivate	4/5	70%	30%
SB	GS	30%	Double disk opener, no-till drill	5/1	90%	25%

Notes: (Use arrow key to advance to next line.
WW = winter wheat; DSB = double crop soybeans; GS = grain sorghum; SB = soybeans

Comment: Round to the nearest five percent.

Comment: Include legend for table abbreviations.

Legal Desc.: NE 1/4, Sec 9, T 12, R 38

Technical Service Provider

Signature 7/18/02
Layout by Date

Signature 7/18/02
Designed by Date

Signature 7/18/02
Checked by Date

Signature 7/18/02
Approved by Date

Producer's Statement

The design of this practice has been discussed with me, and I concur with the design. **No substitutions are allowed without the approval of the technical service provider.**

Signature 7/18/02
Signature Date

Certification

This applied practice meets Kansas standards and specifications.

Signature 8/1/03
Technical Service Provider Date

This practice has been applied as designed.

Signature 8/1/03
Producer Date